

Almost

Collectors (Not really)

CENTENNIAL EDITION



An Official
Publication
of the
University of
Toronto
Engineering
Society

NINETY

Years

OF
THE

toike

OR
EIGHTY-FIVE

WE'RE NOT REALLY
QUITE SURE.

▼INSIDE!

*The
Love
Life of
Llamas*

2

Technical
Proficiency
Test

RESULTS

4

A CLASSIC
TOIKE
MOMENT 8

TURKEY! 6

AND MORE!

ANYWAY,
ITS BEEN
AROUND
A WHILE

JUST A
POINT OF
INTEREST

no-fril.
engineering
newspaper

WOW, EH?

STAR
STORIES

A **folio** SPECIAL REPORT

the *lively* *lively* *lively* *livid* *lyrical* *loose* *logarithmic* *lavish* *lepidopterous* *libelous* *libidinous* *love* *lithographed* *life* *luminous* **of Llamas**

Llama.

The very name conjures up images of excitement, mystery, intrigue, and suspense. But there's more to these so-called "mammals" than fast cars and loose women. Behind their carefree smiles and easy charm lies

a sensitive animal capable of showing concern, nuzzling their human owners with almost human affection before ripping out their throats in an orgy of blood and ripping and screaming and bodily parts flying around and bad odors and yelping and stuff.

The first llama was discovered in the Egypt in 4500 BC. The Egyptian King, Serpentor, was so enraptured by their magnificent nose ridges and extremely waxy ear wax that he named the country's largest river after them. ("Nile" is Egyptian for "Llama.") However, this did not appease the llamas, and in a tragic period known to historians as the "Llamas Running Around Rampaging Things Period," the llamas ran around rampaging things. After thirty moons (in metric, 3 decimoons), the Egyptians built a Sphinx to appease the llamas. It did not succeed, and the llamas left in a huff and moved to South America, where they built more pyramids and founded the Medellin Drug Cartel.

The llamas left their mark on the world in many ways. Alexander the Great was actually Alexander the Great Llama, as were Hippocrates, Confucius, Cleopatra, and Gerald Ford. Even now, llamas control over 50 percent of world's oil stocks.

Anyway, about the llama's love life. Er, it doesn't have one, unless you count mad affairs with Hollywood celebrities. (Heidi Fleiss? Llama.) These affairs have always been held in the utmost secrecy, since if the NDP discovered these illicit affairs, it would have something else to get the government to subsidize. Those few celebrities that have been open with their affairs have been mocked and ridiculed by both their plastic surgeons and the international press. (Case in point: Michael Jackson, if that wasn't obvious enough.)

If you ever do manage to find yourself romantically involved with a llama, here are several do's and don'ts...

Do bring flowers. However, it is important to make sure they are non-poisonous, as the llama will usually eat them.

Do arrive on time. If you are late, the llama will likely piddle on your foot.

Do bring videocassettes starring Ricki Lake. However, it is important to make sure they are non-poisonous, as the llama will usually eat them.

Don't bring videocassettes starring William Shatner. His... gasping... way of talking... makes llamas... constipated.

Do bring the Lady Godiva Memorial Band. Llamas love the song "Roll Me Over in the Clover."

Do bring several copies of the Varshty. While visiting posh Italian eateries and hip nightclubs, llamas have a tendency to leave conspicuous droppings in inconvenient places. You'll need something to pick them up with.

Don't talk about international politics. Llamas hate to "talk shop." Instead, discuss the music career of 80's pop singing sensation Tiffany.

There. Now you know everything you need to know about llamas. Wow, eh?

NEXT MONTH
*The Passionate
 Proverbial
 Prompt
 Patronizing
 Perversions
 of Penguins*

DR MAYBE NOT

**The Beak
 disinformation
 spreader...**

The llama is a quadruped which lives in big rivers like the Amazon. It has two ears, a heart, a forehead, and a beak for eating honey. But it is provided with fins for swimming. Llamas are larger than frogs. Llamas are dangerous, so if see one where people are swimming, you shout: "Look out! There are llamas." - Monty Python, 1969

This is obvious propaganda by the pro-llama lobby. They are trying to hide the fact that llamas are allergic to honey, and don't have foreheads. But they won't get by us!

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Technical Proficiency Test

RESULTS

Technical Proficiency Test
September 4, 1996
Time allotment: 1 hour
Marks: 40 plus possible bonus of 5

Write your name, highschool, student number and class
on each page!

Answer any four of the following five questions. If all five are answered, one question will be counted as a bonus worth five marks. Be sure to clearly indicate which question you are answering. Please show all steps as marks will be deducted for missing steps.

1. a) Given that A is an $n \times n$ matrix and that (3 marks)

$$A^T \cdot A = 0 \text{ and that}$$

$$A \cdot A^T = 0, \text{ prove that } A = 0$$

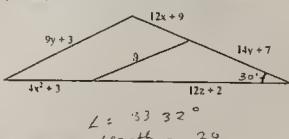
$$A^T \cdot A = A^T \cdot A$$

$$A = \boxed{A^T \cdot A}$$

$$A \cdot A^T = 0$$

$$\therefore A = 0$$

b) With the aid of the diagram below and given that $x = 2y^3 + z^2 - 3yz + 2$, determine the angle of inclination (from the horizontal) and the length of s (7 marks)

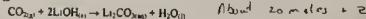


$$\angle = 33 - 32 = 1^\circ$$

$$180^\circ - 74^\circ = 20^\circ$$

2. a) A 0.85L flask is filled with CO_2 . The temperature is kept at a constant 312K and the initial pressure is 1.44 atm. If LiOH_n of negligible volume is added and the pressure decends to 0.56 atm, determine the moles of carbon (C) used in the reaction assuming ideal gas behaviour (3 marks)

The chemical expression is



Note: If you intend to use Boyle's law for ideal gases, the value of $Z(\text{comp. fac.})$ is 0.0278 (If this factor is not taken into consideration half marks will be deducted.)

b) Using Dalton's law of partial pressures as an example, describe, in at least two paragraphs, the principle of resonance as it relates to a chemical trial. (7 marks)

(7 marks) Once enough partial pressure is applied to certain regions of the human anatomy, it creates a local resonance, which creates a deadly chemical trial.

3. a) In 20 words or less, answer the following three questions:

i) Can a square be constructed with the same area as a circle? Explain your answer. Sure, because

ii) Why can't a droplet of water fall in the shape of a cube? ~~Because it's a droplet~~

iii) Can a rope be compressed under any circumstances? If so, give an example. ~~Yes, from when~~

(3 marks) ~~on it~~

b) What is the probability that a three sided dice will fall once on each side if one side is $6x^2$ heavier than the first and the third side has a surface that is $4x^3$ larger than the second? (7 marks)

~~About 30% (50% if you are on the moon)~~

4. a) Given 100 meters of rope and the option of cutting it in any one location to make two rope segments, determine where the rope should be cut in order to maximize the enclosed area of a circle made with one segment and a square made with the other (3 marks)

~~About 3 m, (50 m if you are on the moon)~~

b) Given that $x^2 + 3xy + 2y^2 - y = 7$ describes the velocity of an electron in its p-orbital, find the acceleration vector in R^2 (7 marks)

Hints: 1) complete the square of the given velocity equation
2) let x represent the opposite and y the adjacent sides of the non-right-angled motion vector ($ar=10$)
and use the tangent rule ($\tan = \text{opp}/\text{adj}$) to solve for the angle of accelerated projection.

3) substitute $7v$ for v

~~acceleration vector is 150 if you are on the moon)~~

5. A woman sets out on a journey to find her remote control car from (4, 3). She follows a path described by the equation $t(x) = (x-1)^2$. Her remote control car is moving in a spiral that is centred at the origin and extends radially at a rate of 6 units/second. If the woman travels at a velocity of v where $0 < v < 6$ units/sec and can pause for three seconds every three units travelled, when is the earliest time she will collide with the remote control car? (10 marks)

Hints: 1) DRAW A DIAGRAM!
2) set up a differential equation in t (time)
3) solve for t by integrating both sides

~~1. a) Cut it in half. Take my, but not for it, I've tried it before.~~

~~1. a) I'd be able to do it, but my calculator gives me a~~

~~2. Who's Dalton?~~

iii) If the rope travels at the speed of light, the special theory of relativity states the rope will become heavier. If its length will shorten in the direction of travel and if it were twice as long, it would be younger than its brother rope left on earth. Therefore, a rope can be compressed. ~~Now~~

~~iii) I can compress ropes under a very particular circumstance. If I told you, I'd have to kill you~~

Here are the results of the TPT:

YOU ALL FAILED.

Thank you for your attention. Don't let the door hit you on the butt on the way out.

2. a) The number of holes
(Carbon used is 42
(Forty two is the answer to everything
in the universe isn't it?)

b) The chemical trial, a sexual
attraction between three people or
us it is known as in layman terms
a love triangle ~~is~~ is
caused by an increase in the
partial pressure of nitrogen in the
blood stream (a condition known as
nitrogen narcosis).

The ~~excess~~ nitrogen has an effect
similar to nitrogen, causing the
subject to "resonate" and sometimes
die.

TECHNIKUL PROFICIENCY TEST

1. a) I am a fish. I am a fish. I am a fish.
I am a fish. I am a fish. I am a fish.
I am a fish. I am a fish. I am a fish.
I am a fish. I am a fish. I am a fish.
I am a fish. I am a fish. I am a fish.

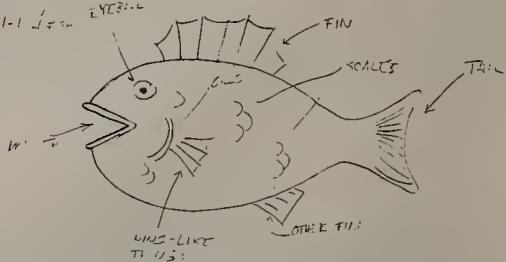
$$x^2 = 3(\alpha)^3$$

$$x = \alpha$$

Therefore, by above algebra proof,

I AM A FISH!

Fig 1-1 from EX212



③ Of all the questions on this test - I have no idea myself how to do well this question. I guess that's why I was overall not very good at my school.

I hereby declare that everything on this test is my own work.

ii) Because when God created rain, the cubist period in art had not yet occurred

Halloween Jokes

Why didn't the skeleton cross the road? Because it had no guts!

Two peanuts were walking down a spooky road at night. One was assaulted. (Get it? Assaulted?)

Yo pumpkin so fat, it got its own ZIP code. (Heh)

PUBLIC NOTICE

On this, the 16th (plus or minus) day of October, 1996, the Toike Oike, accepted as the world's standard of good humour since forever, declares that Hallowe'en jokes just aren't very funny. It is not a funny topic. So, no more Hallowe'en jokes will appear in this issue. We apologize for any inconvenience. We would also like to take the opportunity to mention that squirrel jokes are 'out', while llama jokes are 'in'.

Thank you,
Mgmt.

JOIKE CONTEST UPDATE

Well, we had **two contests** last month and we got... lessee... let me count these... **two entries**. One for each. So we're gonna hold off judging for another month. If we don't get anymore entries, the winners will be **acclaimed**... and we all know what a disaster that can be...

CONTEST #1

WRITE A JOKE THAT SO OFFENSIVE TO MEN THAT MEN WOULD ACTUALLY WRITE IN TO COMPLAIN.

CONTEST #2

WRITE A JOKE (ANY JOKE) BEGINNING WITH "KATO WALKS INTO A BAR HOLDING A SPATULA."

Put your entries in the Toike Oike box in Eng Soc or E-Mail them to toike@skule.ca. A fabulous as-yet-to-be-determined prize could be yours!

Chretien Outlaws Frogs

BY ALEX S. ROSS, INDD9T9

OTTAWA - The Liberal government has recently introduced legislation of such profound importance that more than three or four people are believed to care. The new law declares that the word "frog" is offensive to French Canadians and can therefore no longer be used. From now on, the small green amphibians are to be referred to as "gorfs".

A reporter for the Toike Oike questioned the prime minister, asking if he knew the law would cost billions of dollars because more than a thousand biology textbooks would have to be rewritten. Mr. Chretien ignored the question,

choosing instead to gnaw on his left hand. The reporter then asked if it was true that the prime minister was dating a squirrel. Although Chretien ignored this question as well, he did order his RCMP bodyguards to give the reporter a sadistic beating.

Kermit, a spokesman for the **frog** gorf community, said he and his fellow amphibians have enough problems, like being dissected by biology students or having their legs eaten, without needing to worry about changing their names.

In related news, Zarcon, Devourer of Small Nuts, has denied rumours that he is Jean Chretien's love slave.

REMINDER

On October 25th, when you're left high and dry by the TTC, please remember that you're supposed to support the TTC, and be angry at Mike Harris. It's all his fault. In fact, you should feel *good* that you got screwed by the not-actually-a-strike-it-just-looks-like-one. You bunch of ingrates.

CLASSIFIEDS

Hey! They're called "Classifieds" because they're Classified. If we let every yutz who picked up the paper read them, they'd hardly be very Classified, would they?

Fight Liquor Taxes!

On October 25, 1996, the Toike would like you to join in the public strike. (It's not a strike! It's a Day of Action!) Whatever. We ask that you refrain from drinking alcohol on Friday October 25th from 6am to 10am. That'll show 'em. We believe that all liquor tax laws will be removed if everyone participates in this boycott.

Get these guys some hardhats.

"A herd of thirsty elephants in search of a drink destroyed several illegal breweries southwest of Caicutta, according to Indian forest officials. The herd of 45 pachyderms charged out of the hills looking for water, but stumbled into the illegal operations instead. After smashing six stills and drinking much of their contents during a two-day rampage, the drunken marauders then stumbled back into the woods of Monapore district. There were no reports that any of those operating the illegal breweries were injured or killed during the raids."

"Earth Watch" The Toronto Star, Sunday, October 13, 1996



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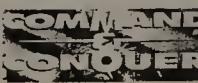
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CLASSIC *toike* MOMENTS

In honour of our, er... 85th and seven months Anniversary (yeah, I know it used to say "Since 1906," but that's apparently a number someone just made up), the Toike proudly presents a new semi-regular feature: Classic Toike Moments - highlights from past issues. (That is, we're actually saying when we rip stuff off from past issues.) This month, in honour of the TTC's participation in the upcoming Day of Inaction, we present, from February 1981 - highlights from The Bitter Way



DRIVERS TEST

1. When approaching an intersection with an amber light, the driver should:
 a) Stop, if it is possible to stop safely.
 b) Sound your horn and continue through the intersection.
 c) Speed up and continue

Correct answer: c) By accelerating, you have made it impossible to stop. Sounding your horn could give you a headache. Traffic lights are for other traffic.

2. While attempting a lane change, you notice a Toyota in the lane you wish to move into. You should:
 a) Give in.
 b) Continue.

Correct answer: b) Continue. If the Toyota argues with a bus, it loses.

3. A dog runs out in front of your bus. You should:
 a) Change lanes to avoid hitting it.
 b) Attempt to stop before hitting the dog.

Correct answer: c) Speed up and take necessary action to hit the dog (but do not change lanes).

Correct answer: c) Dogs on the road are a nuisance and should be methodically eliminated. There may be some misguided dog lover who will cause a serious accident by evading that dog you had a chance to kill.

4. A new stop sign has been posted on your route. You should:

Correct answer: c) Ignore it.
 b) Obey it.
 c) Run over it.

Correct answer: c) Failure to stop at a stop sign is an offense under the Highway Traffic Act. However, stopping takes time. Time cannot be wasted if you want time for that extra coffee at the terminus. Therefore, destroying the stop sign is the only alternative.

5. You are ten minutes behind on a half-hour schedule. There is a straight stretch of road ahead. You should:



a) Speed up to return to schedule.
 b) Stop for twenty minutes at a coffee shop, then continue pretending to be the next bus.

c) Continue at the maximum speed but keep a lookout for passengers wanting to board.

d) It depends on the circumstances.
 e) None of the above.

Correct answer: e) The best answer is to return to the station with a "GARAGE" or "NOT IN SERVICE" sign. Answer b) is not a good answer. Who wants to stop for coffee if it were his last run of the day? Answer c) is ridiculous. Next thing you know, you'll be saying that the TTC is primarily intended as a service to the community.

6. You are just leaving a bus stop when an old man rushing after you waves his umbrella signalling for you to wait for him. You should:

a) Stop and wait.
 b) Reverse your bus over him.

c) Continue on your way.
 d) Call the police and have him charged with wielding a deadly weapon.

Correct answer: c) Everyone should know that TTC schedules are set by bureaucrats and that drivers never see them anyway. If the old man wants to get where he's going, he should take a taxi. If it's not worth the expense, it's probably not worth going anyway.

7. You are just leaving a Stop and you notice a beautiful young nurse running for your bus. You should:

a) Stop and wait.
 b) Stop and wait.
 c) Stop and wait.

d) Stop and wait and ask her where she wants to go...your place or her's.

Correct answer: d) After her run, she's likely to be exhausted and in need of some relaxation. (Examiner's Note: This is an old test. All the bureaucrats have been too busy increasing the fares and decreasing the service to write an up to date test which would allow for the fact that woman might be the bus driver and a charming, educated, handsome, male engineer would be the passenger.)

8. What is the maximum speed limit for TTC buses?

a) The maximum speed for all traffic.
 b) 200 kph.
 c) Neither of the above.

Correct answer: c) The speed of a TTC vehicle is inversely proportional to the hurry your passengers are in.

9. Deviation from the prescribed route is permitted when:

a) The route is under repair.
 b) A TTC inspector authorizes the change.

c) There is no pub on the prescribed route.

d) The nurse of question 7 lives on a side street.

Correct answer: c) Though attempts have been made to make all terminus points next to pubs or taverns, this has not been possible on all routes.

10. Where there are double yellow lines down the centre of the road it means:

a) No overtaking.
 b) Overtake twice as fast as you would when there is only one line.

c) Nothing at all. They are merely decorative.

Correct answer: b) The city would no more squander money on making our streets look nice than they would waste it on attractive subway stations.



Let Us Take You For A Ride...

FEBRUARY
1981

DRIVING IN T.O.

Before you start your car in Toronto for the first time, sit in the driver's seat, hold the steering wheel, and think: I AM THE ONLY DRIVER ON THE ROAD AND MINE IS THE ONLY CAR. This may be hard to do, especially after you have seen the traffic rush hours, but thousands of other drivers believe it and so can you. And you had better; you won't have a chance unless you have this faith. Remember, your car is the car; all others are aberrations of the divine scheme.

The basic rule in cities is - force your car as far as it will go in any opening in the traffic. It is the rule that produces the famous Toronto Four Way Deadlock. It would appear that the Deadlock could be broken if any of the cars would reverse, but this is impossible because of the other car right behind and the car behind that. Anyway, if a driver did reverse, he would become an object of ridicule, for this would suggest a weakness of character.

The impossibility of reversing accounts for some of the difficulties in parking. You will find that when you stop just beyond a vacant space and try backing in, you can't because that other car is still right behind you, hooting away. You can give up and drive on, or you can get out and go back and try to convince him to let you park. This you do by shouting Personal Abuse into his window. One of three things will happen: (1) he may stare sullenly ahead and continue blowing his horn. (2) he may shout Personal Abuse back at you, or, (3) he may get out of his car and kill you, subsequently pleading Crime of Honesty, which automatically equips him in Canadian courts.

Since Torontonians usually drive first into parking spaces, every third or fourth car has it's tail end sticking out. Driving is further complicated by couple parked cars and the Toronto style of leaving a side street by driving half-way into the near lane and then looking. The way to deal with these hazards is to blow your horn and accelerate around them. All Toronto drivers accept the axiom that anything you do while blowing the horn is sacred. If you make a careful, in-lane stop, you not only expose your social and sexual inadequacies, but you may never get moving again since you also show yourself as a weakling whom anyone can challenge with impunity.

The thing to remember about one-way streets in Toronto is that they are not one-way. A driver who has a block or less to go assumes that when the authorities put up the signs, they were not thinking of cases like this. He drives in the wrong way, going full throttle to get it over with quickly, and to prove that he really is in a terrible hurry.

CONT ON PAGE 14

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